

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

IN THE CLAIMS:

Please amend the claims as follows.

1. (Canceled)
2. (Currently Amended) A connector mounted on a board having a plurality of board signal lines and a board ground line, comprising:  
a plurality of signal terminals corresponding to said board signal lines, each of  
said signal terminals comprising:  
a signal core line that is generally linear in shape and formed from a  
conductor;  
a core line shield formed from a conductor that is electrically insulated  
from said signal core line and axially encloses said signal core  
line;  
a signal electrode extending from said signal core line for connecting said  
signal core line with said signal terminal;  
a plurality of ground electrodes extending from said core line shield,  
facing each other and separated by said signal electrode, each  
ground electrode connecting said core line shield with said board  
ground line; andThe connector as claimed in claim 1, further  
comprising  
a housing holding a part of each of said plurality of signal terminals  
[[by]]in two lines side by side in which a first row and [[a]] second

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

~~row are parallel to each other rows,~~ wherein,

the connector is mounted to [[one]] ~~a~~ side of the board on which

[[its]] ~~a front face of the board~~ is parallel to said ~~an~~ axis

~~direction of said signal core line;~~

said signal electrode of said signal terminal in the first row ~~faces~~ is

~~faced by intervention of said signal electrode of said signal~~

~~terminal in the second row, separated by [[and]] said board,~~

said signal electrode of said ~~signal terminal in the first row is~~

connected with said board signal line ~~formed~~ on the front

face of said board, and

said signal electrode of ~~signal terminal in the second row is~~

connected with said board signal line ~~formed~~ on a rear face

of said board.

3. (Currently Amended) A connector mounted on a board having a plurality of board signal lines and a board ground line, comprising:

a plurality of signal terminals corresponding to said board signal lines, each of

said signal terminals comprising:

a signal core line that is generally linear in shape and formed from a

conductor;

a core line shield formed from a conductor that is electrically insulated

from said signal core line and axially encloses said signal core

line;

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

a signal electrode extending from said signal core line for connecting said signal core line with said signal terminal;

a plurality of ground electrodes extending from said core line shield,

facing each other and separated by said signal electrode, each ground electrode connecting said core line shield with said board ground line; and ~~The connector as claimed in claim 1, further comprising:~~

~~a housing holding at least a part of said plurality of signal terminals in the predetermined arrangement orientation side by side two parallel rows; and~~

~~a side surface parallel to said axis of said signal core line, wherein said signal terminals are oriented in said housing direction and said arrangement orientation in said housing is formed in the shape of a wave shape that protrudes protruded in the direction perpendicularly from [[to]] said side surface respectively in at each position holding said plurality of signal terminal[[s]].~~

4. (Currently Amended) The connector as claimed in claim 3 , wherein said housing holds the plurality of signal terminals [[by]] ~~in two parallel rows, with lines side by side, by zigzag arrangements of a first row [[and]] disposed parallel to a second row disposed parallel to each other in a zigzag arragement~~, and in said housing, said side surface close to said first row is formed in the shape of a wave shape that produces protruded in the direction perpendicularly to from said side

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.II1001

surface respectively in at each signal terminal position holding said plurality of signal terminals in said first row, said side surface parallel close to said second row is formed in the shape of a wave shape that protrudes protruded in the direction perpendicularly from [[to]] said side surface respectively in at each signal terminal position holding said plurality of signal terminals in said second row.

5. - 6. (Canceled)

7. (Currently Amended) A connector mounted on a board having a plurality of board signal lines and a board ground line, comprising:  
a plurality of signal terminals corresponding to said board signal lines, each of said signal terminals comprising:  
a signal core line that is generally linear in shape and formed from a conductor:  
a core line shield formed from a conductor that is electrically insulated from said signal core line and axially encloses said signal core line;  
a signal electrode extending from said signal core line for connecting said signal core line with said signal terminal;  
a plurality of ground electrodes extending from said core line shield, facing each other and separated by said signal electrode, each ground electrode connecting said core line shield with said board

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

ground line; and ~~The connector as claimed in claim 1, further comprising:~~

a housing holding said plurality of signal terminals; and  
rivets fixing said housing to said board.

8. (Currently Amended) The connector as claimed in claim 7, wherein  
said connector is connected to other connectors opposed to facing the board by  
intervention of said connector,  
said housing has housing through-holes formed by penetration [[ng it]] from a  
top face supposed to said connector to [[its]] a rear face of said housing,  
said board has board through-holes formed by penetration [[ng it]] from a  
front face to a rear face of supposed to said housing, to its rear face in  
corresponding [[ence]] to said housing through-holes, and  
said rivets are inserted into the housing through-holes and the board through-holes  
in [[the]] a direction from the housing to the board, so that one end  
opposing [[ed to]] said other connectors is accommodated to the housing  
through-holes and another end [[is]] protrudes protruded from the rear face  
of the board.

9. (Currently Amended) A connector mounted on a board having a plurality of  
board signal lines and a board ground line, comprising:  
a plurality of signal terminals corresponding to said board signal lines, each of  
said signal terminals comprising:

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

a signal core line that is generally linear in shape and formed from a conductor;

a core line shield formed from a conductor that is electrically insulated from said signal core line and axially encloses said signal core line;

a signal electrode extending from said signal core line for connecting said signal core line with said signal terminal;

a plurality of ground electrodes extending from said core line shield facing each other and separated by said signal electrode, each ground electrode connecting said core line shield with said board ground line; and The connector as claimed in claim 1, further comprising:

a housing holding a part of each of said plurality of signal terminals in two parallel rows, with by zigzag arrangement of two lines consisted of a first row [[and]] disposed parallel to a second row parallel to each other in a zigzag arrangement; and

two positioning members prescribe a position of other connectors connected to said connector by forming to protrude protruding from the surface of the housing in a position forming zigzag arrangements with the terminals, so that the members are adjacent to the zigzag arrangement of the signal terminals, wherein the positioning members are separated by respectively disposed on one end of each of the first row and the second row and are faced each

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

other by intervention of said plurality of signal terminals and are  
disposed at each end of the first row and the second row.

10. (Currently Amended) The connector as claimed in claim 9, wherein said housing holds said signal terminals ~~of the same number respectively~~ in the first row and the second row.

11. (Currently Amended) A connector for mounting on a board that has a plurality of board signal lines and a board ground line, comprising:  
a plurality of signal terminals corresponding to said board signal lines, each of  
said signal terminals comprising:  
a signal core line that is generally linear in shape and formed from a  
conductor;  
a core line shield formed from a conductor that is electrically insulated  
from said signal core line and axially encloses said signal core  
line;  
a signal electrode extending from said signal core line for connecting said  
signal core line with said signal terminal;  
a plurality of ground electrodes extending from said core line shield,  
facing each other and separated by said signal electrode, each  
ground electrode connecting said core line shield with said board  
ground line; and The connector as claimed in claim 1, wherein  
said connector is connected to other connectors that have[[ing]] a connector[[ed]]

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

core line connected with said signal core line,

said signal core line is connected by engaging it to an end of said connector[[ed]]

core line-in-its-end,

said shield for core line shield includes a circle-shaped extension part protruding from an inside said core line shield and surrounding the signal core line to the signal core line by extension in the shape of a circle surrounding the signal core line in [[the]]a vicinity of one end of the signal core line.

12. (Currently Amended) A connector for mounting on a board that has a plurality of board signal lines and a board ground line, comprising:  
a plurality of signal terminals corresponding to said board signal lines, each of  
said signal terminals comprising:  
a signal core line that is generally linear in shape and formed from a  
conductor;  
a core line shield formed from a conductor that is electrically insulated  
from said signal core line and axially encloses said signal core  
line;  
a signal electrode extending from said signal core line for connecting said  
signal core line with said signal terminal;  
a plurality of ground electrodes extending from said core line shield,  
facing each other and separated by said signal electrode, each  
ground electrode connecting said core line shield with said board  
ground line; and The connector as claimed in claim 1, wherein

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

said signal terminals are engaged with each of the signal core line and the shield for core line and are connected to a connector[[ed]] terminal having a connector[[ed]] core line and a connector[[ed]] shield, with which each of said signal core lines and core line shields engage, and

[[one]] a first side of said signal core line and said connector[[ed]] core line is a male core line terminal-of male type, another second side of said signal core line is a female core line terminal of female type pressing that an outer face of said male core line terminal with[[by]] an elastic force from an[[in]] inner face that contacts[[ed]] with said outer face of said male core line terminal-of male type,

a first[[one]] side of said shield for core line shield and said connector[[ed]] shield is a male shield terminal-of male type, another side is a female shield terminal-of female type pressing that an outer face of said male shield terminal with[[by]] an elastic force from an[[in]] inner face of said female shield terminal that contacts[[ed]] with said outer face of said male shield terminal-of male type, and

when said signal terminal and said connector[[ed]] terminal are connected, one side of said signal core line and said shield for core line shield[[is]] contacts[[ed]] one of with said connected core line and[[or]] said shield for core line shield prior to contact[[ion]] with another side.

13. (Currently Amended) The connector as claimed in claim 12, wherein[[,]] when said signal terminal and said connector[[ed]] terminal are connected, said

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

core line shield for core line is contactsed with said connector[[ed]] shield before  
said signal core line is connected to said connector[[ed]] core line.

14. (Currently Amended) The connector as claimed in claim 13, wherein,  
until a tip of the male shield terminal-of male-type is inserted into a predetermined  
position [[in ]]inside [[of ]]the female shield terminal-of female-type, said female  
shield terminal of female-type presses outside [[of ]]the male shield terminal-of  
male-type with an elastic force that[[to]] increases gradually according to a  
positionadvancce of the tip [[to ]]inside [[of ]]the female shield terminal-of female-  
type, and after the tip of the male shield terminal-of male-type is inserted into the  
predetermined position, the signal core line is connected to the connector[[ed]]  
core line.

15. (Currently Amended) A connector including a plurality of signal terminals  
for transmitting a signal and a housing for holding said plurality of signal terminals, said  
signal terminals comprising:

a signal core line that is generally linear in shape and formed [[of]] from a  
conductor by extension in the shape of a line;  
a first conductive shield electrically formed of conductor insulated from the signal  
core line electrically and accommodated in the housing so that the first  
conductive shield encloses the signal core line by the extending[[sion]]  
from [[the]]a vicinity of [[the]]a tip of the signal core line in[[to]] an  
axial[[s]] direction of the signal core line;

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

a protrusion part protruding[[ed]] over a part of a surface of in a direction depart-

from the signal core line and formed by the extension from [[the]] a  
termination end of the first conductive shield to be locked in the surface of  
the housing; and

a second conductive shield electrically formed of conductor insulated from the  
signal core line electrically so that the tip of the signal core line intervenes between the  
signal core line and the first conductive shield in the vicinity of the protrusion part and  
the second conductive shield encloses the signal core line by[[ the]] extending[[sion]]  
from the tip of the signal core line in[[to]] an axial[[s]] direction.

16. - 18. (Canceled)

19. (Currently Amended) A connector including a signal terminal that is connected to  
a connector[[ed]] terminal with a connector[[ed]] core line and a connector[[ed]] shield,  
said signal terminal comprising:

a signal core line that is generally linear in shape and formed [[o]]from a  
conductor by extension in the shape of a line for engaging with said  
connector[[ed]] core line; and

a core line shield for engaging with said connector shieldcore line formed  
[[of]]from a conductor and electrically insulated from said signal core line  
electrically so as to axially enclose said signal core line, wherein by  
extension in an axis direction of said signal core line for engaging with  
said connected shield;

U.S. Patent Application Serial No. 10/601,069  
Attorney Docket No. 02008.111001

one side of said signal core line and said connector[[ed]] core line is a  
male core line terminal-of-male-type,  
another side is a female core line terminal-of-female-type pressing  
an[[that]] outer face of said male core line terminal by an elastic  
force in an inner face contactinged with said outer face of said  
male core line terminal-of-male-type,  
one side of said shield-for core line shield and said connector[[ed]] shield  
is a male shield terminal-of-male-type,  
another side is a female shield terminal-of-female-type pressing thatsaid  
outer face by an elastic force in said inner face contactinged with  
said outer face of said male shield terminal-of-male-type, and  
when said signal terminal and said connector[[ed]] terminal are connected,  
one side of said signal core line and said shield-for core line  
shield[[is]] contacted with one of said connector[[ed]] core line  
[[or]]and said shield-for core line shield prior to contacted with  
another side.